

What is claimed is:

1. A stator structure of a reciprocating motor, comprising:
a cylindrical stacked core formed by radially stacking a plurality of
5 lamination sheets each having a hanging groove; and
an elastic ring elastically inserted into and fixed to the hanging groove.

2. The stator structure of claim 1, wherein the hanging grooves of the
plurality of lamination sheets are formed of a ring shape.

3. The stator structure of claim 1, wherein the hanging grooves are
formed in both sides of the cylindrical stacked core.

4. The stator structure of claim 1, wherein the hanging groove
15 consists of a receiving groove, whose section has a uniform width, and a settling
groove formed to be connected to the receiving groove and to have a width larger
than the width of the receiving groove, to thus form a jaw.

5. The stator structure of claim 1, wherein the elastic ring is formed
20 by winding magnetic wire of a predetermined length once or a plurality of times to
form a circle.

6. The stator structure of claim 1, wherein the elastic ring is formed
by winding non-magnetic wire of a predetermined length once or a plurality of
25 times to form a circle.